

HEATER CHIP CONFIGURATION FOR AN INKJET PRINthead AND PRINTER

Abstract of the Disclosure

A heater chip has a plurality of heaters each having a length, width and thickness. The length multiplied by the width (heater area) is in a range from about 50 to about 500 micrometers squared while the thickness is in a range from about 500 to about 5000 or 6000 angstroms. The energy required to jet or emit a single drop of ink from the heater during use is in a range from about 0.007 to about 0.99 or 1.19 microjoules. The heater chip is formed as a plurality of thin film layers on a substrate. Energy ranges are taught for all heaters having an area from about 50 to about 4000 micrometers squared and thicknesses ranging from about 500 to about 16,000 angstroms. Printheads containing the heater chip and printers containing the printheads are also disclosed.